



Meghan the Mechanical Engineer: Industrial Magnets

Meet Meghan!



Hi! My name is Meghan. I'm a mechanical engineer. A mechanical engineer is a person who designs structures, like bridges or buildings.

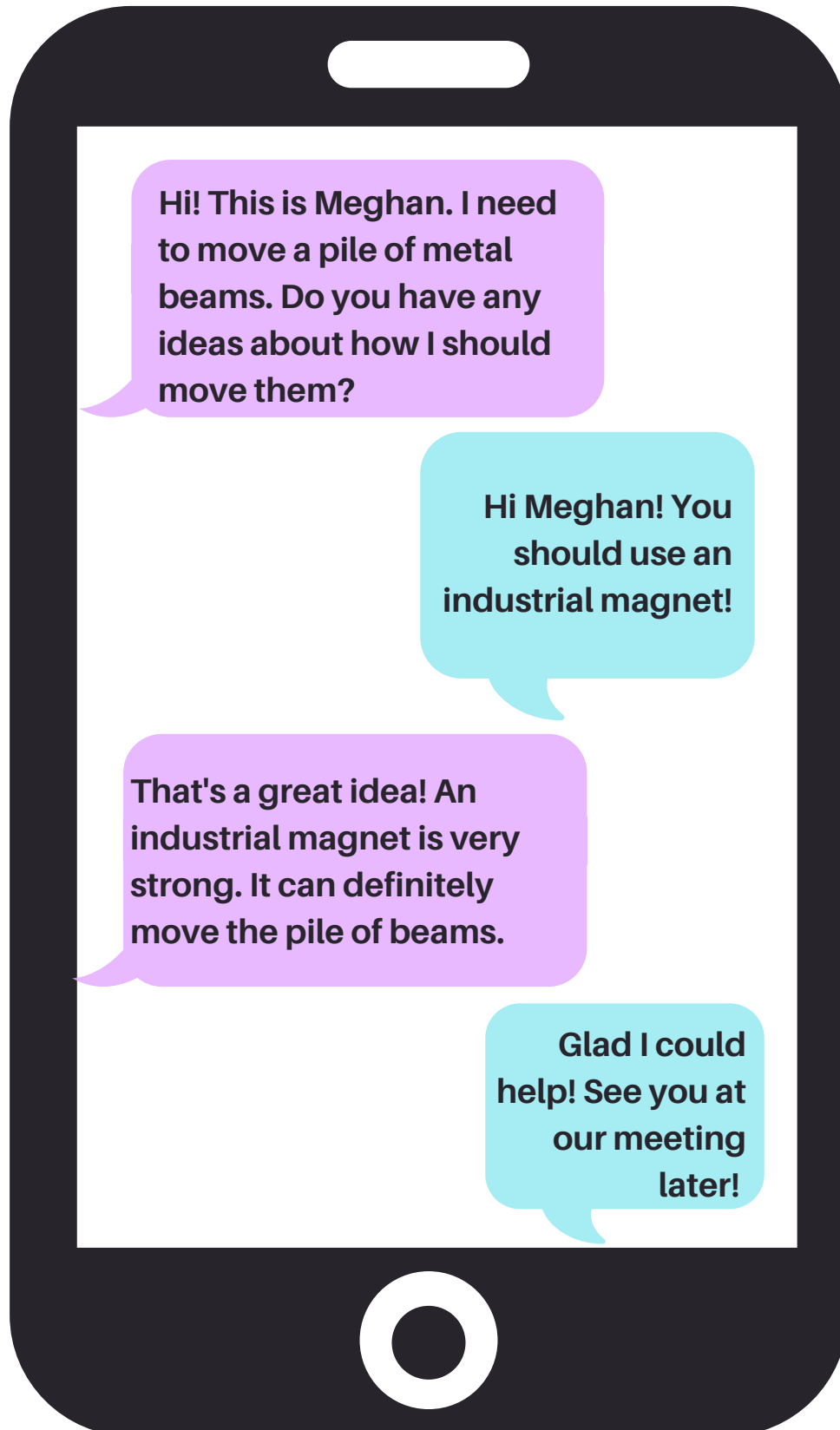
What I am Working On



Today, I am building a new building. I need to move large metal beams to a construction site! The large beams are very heavy, and I cannot move them myself.

Text Messages

I need to find a way to move the metal beams. I am going to text my friend, Brian. He is a mechanical engineer and might have an idea!



Industrial and Regular Magnets

Industrial magnets are special magnets. They are like all magnets because they can pick things up without even touching them. But, they are larger and stronger than regular magnets!



A regular magnet can pick up a small item, like a paper clip.



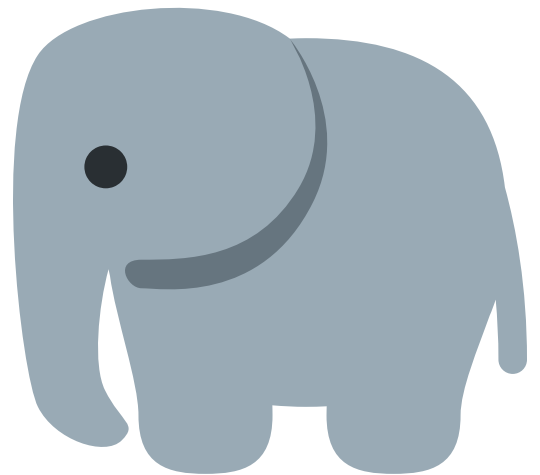
An industrial magnet can pick up large items, like a refrigerator or car!

Check Out This Industrial Magnet!

This industrial magnet is picking up pieces of metal.



Did you know that industrial magnets can hold 15,000 pounds? That is the weight of a large elephant!



Moving the Metal Beams

To move the metal beams, I am going to use an industrial magnet. First, I will place the industrial magnet over the pile of beams. The magnet will create a magnetic force. The magnetic force will pull on the metal beams without even touching them! When I move the magnet closer to the beams, the force will get even stronger! The industrial magnet will be strong enough to pick up the heavy pile of beams!

